

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:  
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## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference  61127-0004-WO		Date of mailing (day/month/year) <b>07 FEB 2006</b> <b>FOR FURTHER ACTION</b> See paragraph 2 below
International application No.  PCT/US04/18217	International filing date (day/month/year)  02 June 2004 (02.06.2004)	Priority date (day/month/year)  02 June 2003 (02.06.2003)
International Patent Classification (IPC) or both national classification and IPC  IPC(7): G06F 17/30; G06T 11/20 and US Cl.: 707/101, 104; 345/440; 702/189		
Applicant  BOARD OF TRUSTEES OF THE LELAND STANDFORD JR. UNIVERSITY		

1. This opinion contains indications relating to the following items:

- ☒ Box No. I      Basis of the opinion
- ☐ Box No. II      Priority
- ☐ Box No. III      Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV      Lack of unity of invention
- ☒ Box No. V      Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI      Certain documents cited
- ☐ Box No. VII      Certain defects in the international application
- ☐ Box No. VIII      Certain observations on the international application

### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Date of completion of this opinion  03 September 2005 (03.09.2005)	Authorized officer <i>Jean M. Corrielus</i> Jean M. Corrielus  Telephone No. (703) 305-9000
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*PCT/ISA/237*

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/18217

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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**Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Claims <u>1-136</u>	YES
	Claims <u>NONE</u>	NO
Inventive step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-136</u>	NO
Industrial applicability (IA)	Claims <u>1-136</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Claims 1-136 lack of an inventive step under PCT Article 33(3) as being obvious over Whitney et al., (hereinafter Whitney) US 2002/0123865 A1 in view of Mohda et al., (hereinafter "Mohda") US patent 6,100,901.

As to claims 1-136, Mohda discloses a system for querying and visualizing multidimensional database, wherein a data interpreter and visual interpreter modules are provided as well as instructions for encoding a tuple in the subset of tuples in the panes as a graphical mark (col. 14, lines 35-65; col.10, lines 60-67; col.7, lines 59-67; col.3, lines 50-62). To query and visualize multidimensional database a method for generating analyses the hierarchical structures and providing instructions to query the database based on a set of specification in order to allow the applications of exploratory multidimensional database analysis procedures as provided by Whitney. Whitney also discloses a first database ([0041], [0050] and [0052]), a database hierarchy module comprising instructions for determining a hierarchical structure of said first database ([0016], [0018][0052], [0053], [0067], [0068]); a user interface module comprising instructions for constructing a visual table, said visual table comprised of a plurality of panes, by obtaining a specification that is in a language based on the hierarchical structure of the first database ([0053] [0018])